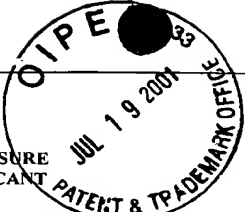
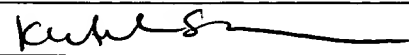


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| | | Application Number | 09/840,485 |
| | | Filing Date | April 23, 2001 |
| | | First Named Inventor | Bigbie et al. |
| | | Group Art Unit | to be assigned |
| | | Examiner Name | to be assigned |
| Sheet | 1 of 3 | Attorney Docket Number | AM100123 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|----------|----------------------|----------------------|---|--|---|
| Examiner Initials* | Cite No. | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number (If known) | Kind Code (If Known) | | | |
| KSS | 1. | 6,110,665 | | Fenger et al. | 08/29/00 | |
| KSS | 2. | 6,153,394 | | Mansfield et al. | 11/28/00 | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|----------|-------------------------|----------------|----------------------|---|--|---|--------------------------|
| Examiner Initials* | Cite No. | Foreign Patent Document | | | Name of Patentee or Applicant of Cited document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
| | | Office | Number | Kind Code (If Known) | | | | |
| KSS | 3. | | WO 00/17640 | | PCT | 03/30/00 | | <input type="checkbox"/> |
| KSS | 4. | | WO 00/49049 | | PCT | 08/24/00 | | |
| KSS | 5. | | WO 01/15708 A1 | | PCT | 03/08/01 | | |
| KSS | 6. | | WO 97/29770 | | PCT | 08/21/97 | | |

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|---|----------|--|--|--------------------------|
| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | T |
| KSS | 7. | Cheadle et al., Int'l Journal for Parasitology 31 (2001) 330-335, The nine-banded armadillo (<i>Dasypus novemcinctus</i>) is an intermediate host for <i>Sarcocystis neurona</i> | | <input type="checkbox"/> |
| KSS | 8. | Paola Minoprio, Int'l Journal for Parasitology 31 (2001) 588-591, Parasite polyclonal activators: new targets for vaccination approaches? | | <input type="checkbox"/> |
| KSS | 9. | Saville et al., Veterinary Parasitology 95 (2001) 211-222, Utilization of stress in the development of an equine model for equine protozoal myeloencephalitis | | <input type="checkbox"/> |
| KSS | 10. | Lindsay, et al., Veterinary Parasitology 95 (2001) 179-186, Direct agglutination test for the detection of antibodies to <i>Sarcocystis neurona</i> in experimentally infected animals | | <input type="checkbox"/> |
| KSS | 11. | Cheadle et al., Veterinary Parasitology 95 (2001) 305-311, Sporocyst size of isolates of <i>Sarcocystis</i> shed by the Virginia opossum (<i>Didelphis virginiana</i>) | | <input type="checkbox"/> |
| KSS | 12. | J. P. Dubey, Veterinary Parasitology 95 (2001) 341-351, Migration and development of <i>Sarcocystis neurona</i> in tissues of interferon gamma knockout mice fed sporocysts from a naturally infected opossum | | <input type="checkbox"/> |
| KSS | 13. | Porter, et al., Veterinary Parasitology 95 (2001) 313-319, Evaluation of the shedding of <i>Sarcocystis falciparum</i> sporocysts in experimentally infected Virginia opossums (<i>Didelphis virginiana</i>) | | <input type="checkbox"/> |
| KSS | 14. | Dubey et al., Veterinary Parasitology 95 (2001) 283-293, Prevalence of <i>Sarcocystis neurona</i> sporocysts in opossums (<i>Didelphis virginiana</i>) from rural Mississippi | | <input type="checkbox"/> |
| KSS | 15. | Mansfield et al., Veterinary Parasitology 95 (2001) 167-178, Comparison of <i>Sarcocystis neurona</i> isolates derived from horse neural tissue | | <input type="checkbox"/> |
| KSS | 16. | Cook, et al., Veterinary Parasitology 95 (2001) 187-195, Interpretation of the detection of <i>Sarcocystis neurona</i> antibodies in the serum of young horses | | <input type="checkbox"/> |
| KSS | 17. | Vardeleon et al., Veterinary Parasitology 95 (2001) 273-282, Prevalence of <i>Neospora hughesi</i> and <i>Sarcocystis neurona</i> antibodies in horses from various geographical locations | | <input type="checkbox"/> |
| KSS | 18. | Cutler et al., Veterinary Parasitology 95 (2001) 197-210, Immunoconversion against <i>Sarcocystis neurona</i> in normal and dexamethasone-treated horses challenged with <i>S. neurona</i> sporocysts | | <input type="checkbox"/> |
| KSS | 19. | Cutler, et al., J. Parasitology 85(2) 1999 301-305, Are <i>Sarcocystis neurona</i> and <i>Sarcocystis falciparum</i> synonymous? A horse infection challenge | | <input type="checkbox"/> |
| KSS | 20. | Rossano et al., J Vet Diagn Invest 12:28 - 32 (2000), Improvement of western blot test specificity for detecting equine serum antibodies to <i>Sarcocystis neurona</i> | | <input type="checkbox"/> |
| KSS | 21. | Gauthier et al., J Vet Diagn Invest 11:259-265 (1999), Western immunoblot analysis for distinguishing vaccination and infection status with <i>Borrelia burgdorferi</i> (Lyme disease) in dogs. | | <input type="checkbox"/> |
| KSS | 22. | Lindsay, et al., J Parasitology 86(1) 2000 164-166, Determination of the Activity of Diclazuril Against <i>Sarcocystis neurona</i> and <i>Sarcocystis falciparum</i> in Cell Cultures | | <input type="checkbox"/> |

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| OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T |
| KSS | 23. | Dubey et al., J Parasitology 86(1) 2000 160-163, Isolation of Sarcocystis speeri Dubey and Lindsay, 1999 Parasite from the south American Opossum (Didelphis albiventris) from Argentina | <input type="checkbox"/> |
| KSS | 24. | Reed et al., AAEP Proceedings vol 42 1996 75-78, Equine Protozoal Encephalomyelitis | <input type="checkbox"/> |
| KSS | 25. | Dubey et al., J Parasitology 86(6) 2000 1276-1280, Completion of the Life Cycle of Sarcocystis Neurona | <input type="checkbox"/> |
| KSS | 26. | Dubey et al., J Parasitology 86(5) 2000 1150-1152, Immunohistochemical Confirmation of Sarcocystis neurona Infections in raccoons, Mink, Cat, Skunk, and Pony | <input type="checkbox"/> |
| KSS | 27. | Dame et al., Parasitol Res 2000 86: 940-943, Equine protozoal myeloencephalitis: msytery wrapped in enigma | <input type="checkbox"/> |
| KSS | 28. | Saville et al., JAVMA vol 217 No 8, 2000, 1174-1185, Analysis of risk factors for the development of equine protozoal myeloencephalitis in horses | <input type="checkbox"/> |
| KSS | 29. | Dubey et al., J Parasitology 84(16), 1998 1158-1164, Isolation of a Third species of Sarcocystis in Immunodeficient mice fed Feces from Opossums (Didelphis Virginiana) and its Differentiation from Sarcocystis Falcatulula and Sarcocystis Neurona | |
| KSS | 30. | Cutler et al., J Parasitology 85(2) 1999 301-305, Are Sarcocystis Neurona and Sarcocystis Falcatulula Synonymous? A horse Infection Challenge | |
| KSS | 31. | Dubey et al., J Eukaryot. Microbiol. 46(5) 1999 500-506, Characterization of a Sarcocystis neurona Isolate (SN6) from a Naturally Infected Horse from Oregon | |
| KSS | 32. | Fenger et al., Veterinary Parasitology 68 (1997) 199-213, Experimental induction of equine protozoal myeloencephalitis in horses using Sarcocystis sp. Sporocysts from the opossum (Didelphia virginiana) | |
| KSS | 33. | Clara K. Fenger, Parasitology vol 19, no 4, April 1997, 513-523, Equine Protozoal Myeloencephalitis | |
| KSS | 34. | Kisthardt et al., Equine Practice, vol 19, no 2, February 1997, 8-13, Equine Protozoal Myeloencephalitis | |
| KSS | 35. | Divers et al., Supplement to Veterinary Medicine February 2000, 3-22, Equine protozoal myeloencephalitis: Recent advances in diagnosis and treatment | |
| KSS | 36. | Saville et al., AAEP Proceedings, vol 41, 1995 220-221, Prevalence of Serum antibodies to Sarcocystis neurona in Horses in Ohio, 220-221 | |
| KSS | 37. | Saville et al., JAVMA, vol 210, No. 4, February 1997 519-524, Seroprevalence of antibodies to Sarcocystis neurona in horses residing in Ohio | |
| KSS | 38. | Fenger et al., J Parasitology 8(16) 1995 916-919, Identification of Opossums (Didelphis Virigniana) as the Putative Definition Host of Sarcocystis Neurona | |
| KSS | 39. | Reed et al., AAEP Proceedings vol 42 1996 75-79, Equine Protozoal Encephalomyelitis | |
| KSS | 40. | Tanhauser et al., J Parasitology 85(2) 1999 221-228, Multiple DNA Markers Differentiate Sarcocystis Neurona and Sarcocystis Falcatulula | |
| KSS | 41. | Dubey et al., Int'l J Parasitology 28 1998 1823-1828, Isolation in immunodeficient mice of Sarcocystis neurona from opossum (Didelphis virginiana) faeces, and its differentiation from Sarcocystis falcatulula | |
| KSS | 42. | Marsh et al., J Parasitology 83(6) 1997 1189-1192, In Vitro Cultivation and Experimental Inoculation of Sarcocystis falcatulula and Sarcocystis neurona Merozoites into Budgerigars (Melopsittacus undulatus) | |
| KSS | 43. | Liang et al., Infection and Immunity vol 66 no.5 May 1998 1834-1838, Evidence that Surface Proteins Sn14 and Sn16 of Sarcocystis neurona Merozoites are Involved in Infection and Immunity | |
| KSS | 44. | Wilson et al., Parasitology Today vol 14 No.9 1998 348-353, Iron Acquisition by Parasitic Protozoa | |
| KSS | 45. | Granstrom et al., J Parasitology 78(5) 1992 909-912, Equine Protozoal Myelitis in Panamanian Horses and Isolation of Sarcocystis neurona | |
| KSS | 46. | Marsh et al., J Parasitology vol 85 no.4 August 1999 750-757, Comparison of the Internal Transcribed Spacer, ITS-1, from Sarcocystis falcatulula Isolates and Sarcocystis neurona | |
| KSS | 47. | Gajadhar et al., J Parasitology 84(4) 1998 759-763, Prevalence of Toxoplasma Gondii in Canadian Market-Age Pigs | |
| KSS | 48. | Fischer et al., J Parasitology 84(1) 1998 50-54, Characterization of Bovine Sarcocystis Species by Analysis of their 18S Ribosomal DNA Sequences | |
| KSS | 49. | Fenger et al., JAVMA vol 210 No.7 April 1, 1997 923-927, Epizootic of Equine protozoal myeloencephalitis on a farm | |
| KSS | 50. | I. G. Mayhew, Cornell Vet 65 500-511 (1975), Collection of Cerebrospinal fluid from the Horse | |

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| Examiner Signature | | Date Considered | 9/22/01 |
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

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|--------------------|----------|--|---|
| Ken | 51. | Speer et al., J Parasitology 86(1) 2000 25-32, Comparative Development and Merozoite Production of Two Isolates of Sarcocystis Neurona and Sarcocystis Falciparum in Cultured Cells | |
| Ken | 52. | Davis et al., J Parasitology 77(5) 1991 789-792, In Vitro Cultivation of Sarcocystis neurona from the Spinal cord of a Horse with Equine Protozoal Myelitis | |
| Ken | 53. | Dubey et al., J Parasitology 86(1) 2000 160-163, Isolation of Sarcocystis speeri Dubey and Lindsay, 1999 Parasite from the South American Opossum (Didelphis albiventris) from Argentina | |
| Ken | 54. | Hamir et al., J Vet Diagn Invest 5:418-422 (1993), Immunohistochemical study to demonstrate Sarcocystis neurona in equine protozoal myeloencephalitis | |
| Ken | 55. | Granstrom et al., J Vet Diagn Invest 5:88-90 (1993), Equine protozoal myeloencephalitis: antigen analysis of cultured Sarcocystis neurona merozoites | |
| Ken | 56. | Dubey et al., J Parasitology 77(2) 1991 212-218, Sarcocystis Neurona N. SP. (Protozoa: Apicomplexa), the Etiologic Agent of Equine Protozoal Myeloencephalitis | |
| Ken | 57. | Bentz et al., JAVMA vol 210 No.4 February 15, 1997, 517-518, Seroprevalence of antibodies to Sarcocystis neurona in horses residing in a county of southeastern Pennsylvania | |
| Ken | 58. | Blythe et al., JAVMA vol 210 No.4 February 15, 1997, 525-527, Seroprevalence of antibodies to Sarcocystis neurona in horses residing in Oregon | |
| Ken | 59. | Murrell et al., Vaccines; New Concepts & Developments, Ed. Heinz Kohler & Phillip T. Laverde Proceeding of the 10 th International Convention of Immunology, Buffalo, NY July 14-17 1986, pp 403-411, Vaccines against animal parasites | |
| Ken | 60. | Dubey et al., Sarcocystosis of Animals and Man, 1989, 1-115, by CRC Press Inc, Boca Raton, FL | |
| Ken | 61. | Noble et al., Parasitology The Biology of Animal Parasites 5 th Edition, Lea & Febiger Philadelphia 1982, p-85, Phylum Apicomplexa | |
| Ken | 62. | Gregory L. Ferraro, DVM, Equis Magazine 262, August 1999, EPM: A New Plan of Attack, 11-13 | |
| Ken | 63. | John B. Dame, AVMA Conference, New Orleans LA July 1999, EPM: possums, parasites and paresis, 522-525 | |
| Ken | 64. | Fayer et al., International Journal of Parasitology, 1987 vol 7(2) 615-620, Comparative Epidemiology of Coccidia: Clues to the Etiology of Equine Protozoal Myeloencephalitis | |
| Ken | 65. | Equine Disease Quarterly, April 1998, vol 6, no.3 – 9 pages | |
| Ken | 66. | Equine Disease Quarterly, July 1998, vol 6, no.4 – 6 pages | |
| Ken | 67. | Dubey et al., Journal Vet Invest 5:467-471 (1993) Meningoencephalitis in mink associated with a Sarcocystis neurona-like organism. | |
| Ken | 68. | Dubey et al., Journal Parasitology 82(1) 1996 172-174, A Sarcocystis neurona-like Organism Associated with Encephalitis in a Striped Skunk (Mephitis mephitis) | |
| Ken | 69. | Marsh et al., Parasitology Res (1997) 83: 706-711, Experimental infection of nude mice as a model for Sarcocystis neurona-associated encephalitis | |
| Ken | 70. | Christine Barakat, Equus Magazine (268) February 2000, pp 15-16, Neospora Hughesi | |
| Ken | 71. | Gajadhar et al., Journal Parasitology 84(4), 1998 759-763, Prevalence of Toxoplasma Gondii in Canadian Market-Age Pigs | |
| Ken | 72. | John Lyons, John Lyons' Perfect Horse March 2000, 22-24, Common Questions About EPM | |
| Ken | 73. | Saville et al., JAVMA vol 217 No.8 October 2000, 1181-1185, Evaluation of risk factors associated with clinical improvement and survival of horses with equine protozoal myeloencephalitis | |

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| Examiner Signature | | Date Considered | 9/22/01 |
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| OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS | | | |
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| <i>K</i> | 1. | Ramey, David W., Equine Athlete, September/October 1997, pp 11-12, EPM: Research and Destroy | <input type="checkbox"/> |



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